

ABSTRACT OF THE DISCLOSURE

The invention provides a highly-reliable, low-loss non-radiative dielectric waveguide. According to one aspect of the invention, a non-radiative dielectric waveguide comprises parallel planar conductors arranged at an interval of half or below of a high-frequency signal wavelength, and a dielectric strip interposed between the parallel planar conductors. The dielectric strip has a 0.01 to 0.3 mm-wide chamfer formed at its edge portion in a high-frequency signal transmission direction. According to another aspect of the invention, a non-radiative dielectric waveguide comprises parallel planar conductors arranged at an interval of half or below of a high-frequency signal wavelength, and a dielectric strip interposed between the parallel planar conductors. The dielectric strip is made of a ceramics having an open pore ratio of 5 % or less.